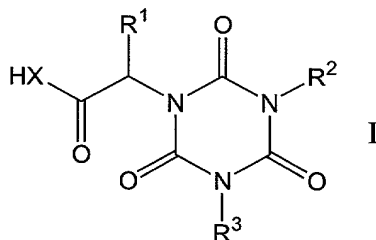


What is Claimed:

1. A library of compounds having a structure corresponding to that shown in Formula I, below, or a pharmaceutically acceptable salt thereof:



wherein:

X is O or NH;

R¹ is selected from the group consisting of a hydrido, C₁-C₁₀ alkyl, C₁-C₁₀ substituted alkyl, C₇-C₁₆ phenylalkyl, C₇-C₁₆ substituted phenylalkyl, phenyl, substituted phenyl, C₃-C₇ cycloalkyl, and a C₃-C₇ substituted cycloalkyl group;

R² is selected from the group consisting of a C₁-C₁₀ alkyl, C₁-C₁₀ substituted alkyl, C₇-C₁₆ phenylalkyl, C₇-C₁₆ substituted phenylalkyl, phenyl, substituted phenyl, C₃-C₇ cycloalkyl, C₃-C₇ substituted cycloalkyl, and a C₃-C₇ substituted cycloalkyl group; and

R³ is selected from the group consisting of a hydrido, C₁-C₁₀ alkyl, C₁-C₁₀ substituted alkyl, C₂-C₁₀ alkenyl, C₂-C₁₀ substituted alkenyl, C₂-C₁₀ alkynyl, C₂-C₁₀ substituted alkynyl, C₃-C₇ cycloalkyl, C₃-C₇ substituted cycloalkyl, phenyl, C₇-C₁₆ phenylalkyl, C₇-C₁₆ phenylalkenyl, C₇-C₁₆ phenylalkenyl and a C₇-C₁₆ substituted phenylalkenyl group.

2. The library according to claim 1

wherein R¹ is selected from the group consisting of a hydrido, methyl, benzyl, 2-butyl, N,N-dimethylaminobutyl, N-methylaminobutyl, N-methyl-N-benzylaminobutyl, 2-methylpropyl, methylsulfinylethyl, methylthioethyl, N,N-dimethylaminoethyl, N,N-dimethylaminopropyl, N',N',N'-trimethylguanidinopropyl, N',N',N'-tribenzyl-guanidinopropyl, N',N'-dibenzylguanidinopropyl, N'-methylguanidinopropyl, hydroxymethyl, 1-hydroxyethyl, 2-propyl, N-methyl-3-indolylmethyl, 4-methoxybenzyl, 4-hydroxybenzyl, propyl, butyl, cyclohexylmethyl, phenyl, 2-naphthylmethyl, and a 4-imidazolylmethyl substituent.

3. The library according to claim 1

wherein R² is selected from the group consisting of a methyl, ethyl, isopropyl, n-propyl, butyl, t-butyl, cyclohexyl, n-octadecyl, phenyl, benzyl, 2-fluorophenyl, 3-fluorophenyl, 4-fluorophenyl, 2-chlorophenyl, 3-chlorophenyl, 4-chlorophenyl, 2-bromophenyl, 3-bromophenyl, 4-bromophenyl, 3-chloro-4-methylphenyl, 3-bromo-4-methylphenyl, 3-fluorosulfonyl-phenyl, 3,4-(methylenedioxy)phenyl, 4-phenoxyphenyl, trans-2-phenylcyclopropyl, 4-toluenesulfonyl, 2-tolyl, 3-tolyl, 4-tolyl, 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, α,α,α -trifluoro-2-tolyl, α,α,α -trifluoro-3-tolyl, α,α,α -trifluoro-4-tolyl, 2,5-dimethylphenyl, 3,4-dimethylphenyl and a 3,5-dimethylphenyl substituent.

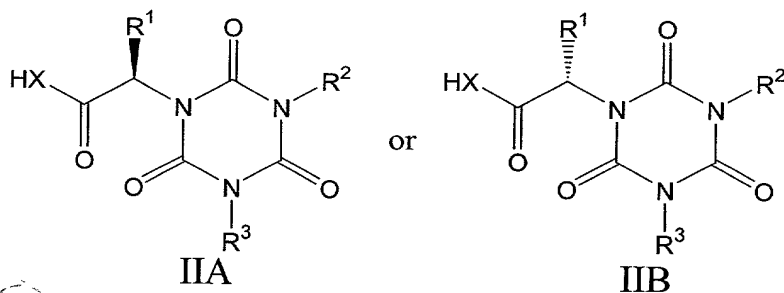
4. The library according to claim 1

wherein R³ is selected from the group consisting of a

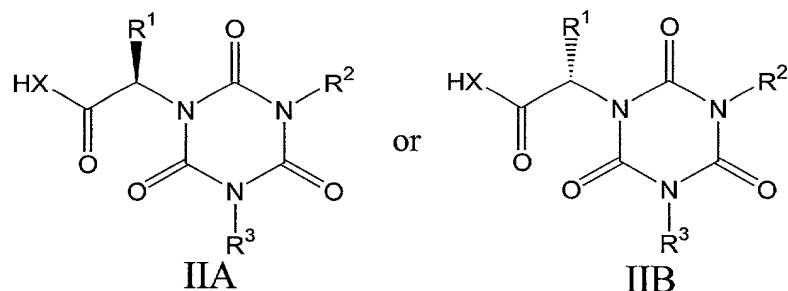
hydrido, C₁-C₆ alkyl, C₂-C₆ alkenyl, benzyl, and a substituted benzyl substituent.

5. The library according to claim 1 wherein the R¹ substituent is a side chain of an amino acid selected from the group consisting of Ala, Phe, Gly, Asp, Asn, Glu, Gln, His, Ile, Lys, Leu, Met, Arg, Nva, Ser, Thr, Val, Trp, Tyr, Nle, Cha, Chg, Fph, Cph, Nph, Aib, Abu, ala, phe, asp, asn, glu, gln, his, ile, lys, leu, met, arg, ser, thr, val, trp, tyr, nle, nva, cha, chg, fph, cph, aib, and abu wherein amino acids written with an initial capital letter are L-amino acids and those written in all lower case letters are D-amino acids.

6. The library of compounds according to claim 1 wherein said compounds have a structure corresponding to that shown in Formulas IIA or IIB below, or a pharmaceutically acceptable salt thereof:



7. A library of compounds having a structure corresponding to that shown in Formulas IIA or IIB, below, or a pharmaceutically acceptable salt thereof:



wherein:

X is O or NH;

R¹ is selected from the group consisting of a hydrido, methyl, benzyl, 2-butyl, N,N-dimethylaminobutyl, N-methylaminobutyl, N-methyl-N-benzylaminobutyl, 2-methylpropyl, methylsulfinylethyl, methylthioethyl, N,N-dimethylaminoethyl, N,N-dimethylaminopropyl, N',N',N'-trimethylguanidinopropyl, N',N',N'-tribenzyl-guanidinopropyl, N',N'-dibenzylguanidinopropyl, N'-methylguanidinopropyl, hydroxymethyl, 1-hydroxyethyl, 2-propyl, N-methyl-3-indolylmethyl, 4-methoxybenzyl, 4-hydroxybenzyl, propyl, butyl, cyclohexylmethyl, phenyl, 2-naphthylmethyl, and a 4-imidazolylmethyl substituent;

R² is selected from the group consisting of a methyl, ethyl, isopropyl, n-propyl, butyl, t-butyl, cyclohexyl, n-octadecyl, phenyl, benzyl, 2-fluorophenyl, 3-fluorophenyl, 4-fluorophenyl, 2-chlorophenyl, 3-chlorophenyl, 4-chlorophenyl, 2-bromophenyl, 3-bromophenyl, 4-bromophenyl, 3-chloro-4-methylphenyl, 3-bromo-4-methylphenyl, 3-fluorosulfonyl-phenyl, 3,4-(methylenedioxy)phenyl, 4-phenoxyphenyl, trans-2-phenylcyclopropyl, 4-toluenesulfonyl, 2-tolyl, 3-tolyl, 4-tolyl, 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, α,α,α-trifluoro-2-tolyl, α,α,α-trifluoro-3-tolyl, α,α,α-trifluoro-4-tolyl, 2,5-dimethylphenyl, 3,4-

dimethylphenyl and a 3,5-dimethylphenyl substituent;
and

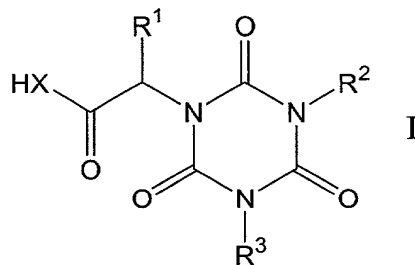
R^3 is selected from the group consisting of
a hydrido, C_1 - C_6 alkyl, C_2 - C_6 alkenyl, benzyl, and a
substituted benzyl group.

8. The library according to claim 7
wherein the R^1 substituent is a side chain of an
amino acid selected from the group consisting of Ala,
Phe, Gly, Asp, Asn, Glu, Gln, His, Ile, Lys, Leu,
Met, Arg, Nva, Ser, Thr, Val, Trp, Tyr, Nle, Cha,
Chg, Fph, Cph, Nph, Aib, Abu, ala, phe, asp, asn,
glu, gln, his, ile, lys, leu, met, arg, ser, thr,
val, trp, tyr, nle, nva, cha, chg, fph, cph, aib, and
abu wherein amino acids written with an initial
capital letter are L-amino acids and those written in
all lower case letters are D-amino acids.

9. The library according to claim 7
wherein the R^2 substituent is selected from the group
consisting of a phenyl, 4-halophenyl, 4-(C_1 - C_6 -
alkyl)phenyl and a C_1 - C_6 alkyl group.

10. The library according to claim 7
wherein the R^3 substituent is selected from the group
consisting of a hydrido, methyl, benzyl, 2-, 3- and
4-methylbenzyl, 2-, 3- and 4-fluorobenzyl, 2-, 3- and
4-chlorobenzyl, 2,4-, 3,4-, 3,5- and 2,6-
difluorobenzyl, 4-(trifluoromethyl)benzyl, 4-
(trifluoromethoxy)benzyl, 2-, 3-, and 4-
methoxybenzyl, 3,5- and 3,4-dimethoxybenzyl, 2-, 3-
and 4-nitrobenzyl, 2-, 3- and a 4-phenylbenzyl
substituent.

11. A compound having a structure corresponding to that shown in Formula I, below, or a pharmaceutically acceptable salt thereof:



wherein:

X is O or NH;

R¹ is selected from the group consisting of a hydrido, C₁-C₁₀ alkyl, C₁-C₁₀ substituted alkyl, C₇-C₁₆ phenylalkyl, C₇-C₁₆ substituted phenylalkyl, phenyl, substituted phenyl, C₃-C₇ cycloalkyl, and a C₃-C₇ substituted cycloalkyl group;

R² is selected from the group consisting of a C₁-C₁₀ alkyl, C₁-C₁₀ substituted alkyl, C₇-C₁₆ phenylalkyl, C₇-C₁₆ substituted phenylalkyl, phenyl, substituted phenyl, C₃-C₇ cycloalkyl, C₃-C₇ substituted cycloalkyl, and a C₃-C₇ substituted cycloalkyl group; and

R³ is selected from the group consisting of a hydrido, C₁-C₁₀ alkyl, C₁-C₁₀ substituted alkyl, C₂-C₁₀ alkenyl, C₂-C₁₀ substituted alkenyl, C₂-C₁₀ alkynyl, C₂-C₁₀ substituted alkynyl, C₃-C₇ cycloalkyl, C₃-C₇ substituted cycloalkyl, phenyl, C₇-C₁₆ phenylalkyl, C₇-C₁₆ phenylalkenyl, C₇-C₁₆ phenylalkynyl and a C₇-C₁₆ substituted phenylalkenyl group.

12. The compound according to claim 11 wherein R¹ is selected from the group consisting of a hydrido, methyl, benzyl, 2-butyl, N,N-dimethylaminobutyl, N-methylaminobutyl, N-methyl-N-benzylaminobutyl, 2-methylpropyl, methylsulfinylethyl, methylthioethyl, N,N-dimethylaminoethyl, N,N-dimethylaminopropyl, N',N',N'-trimethylguanidinopropyl, N',N',N'-tribenzyl-guanidinopropyl, N',N'-dibenzylguanidinopropyl, N'-methylguanidinopropyl, hydroxymethyl, 1-hydroxyethyl, 2-propyl, N-methyl-3-indolylmethyl, 4-methoxybenzyl, 4-hydroxybenzyl, propyl, butyl, cyclohexylmethyl, phenyl, 2-naphthylmethyl, and a 4-imidazolylmethyl substituent.

13. The compound according to claim 11 wherein R² is selected from the group consisting of a methyl, ethyl, isopropyl, n-propyl, butyl, t-butyl, cyclohexyl, n-octadecyl, phenyl, benzyl, 2-fluorophenyl, 3-fluorophenyl, 4-fluorophenyl, 2-chlorophenyl, 3-chlorophenyl, 4-chlorophenyl, 2-bromophenyl, 3-bromophenyl, 4-bromophenyl, 3-chloro-4-methylphenyl, 3-bromo-4-methylphenyl, 3-fluorosulfonyl-phenyl, 3,4-(methylenedioxy)phenyl, 4-phenoxyphenyl, trans-2-phenylcyclopropyl, 4-toluenesulfonyl, 2-tolyl, 3-tolyl, 4-tolyl, 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, α,α,α -trifluoro-2-tolyl, α,α,α -trifluoro-3-tolyl, α,α,α -trifluoro-4-tolyl, 2,5-dimethylphenyl, 3,4-dimethylphenyl and a 3,5-dimethylphenyl substituent.

14. The compound according to claim 11 wherein R³ is selected from the group consisting of a hydrido, C₁-C₆ alkyl, C₂-C₆ alkenyl, benzyl, and a substituted benzyl substituent.

Species	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368</
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17.

 HX

X is O or NH;

R¹ is selected from the group consisting of a hydrido, methyl, benzyl, 2-butyl, N,N-dimethylaminobutyl, N-methylaminobutyl, N-methyl-N-benzylaminobutyl, 2-methylpropyl, methylsulfinylethyl, methylthioethyl, N,N-dimethylaminoethyl, N,N-dimethylaminopropyl, N',N',N'-trimethylguanidinopropyl, N',N',N'-tribenzyl-guanidinopropyl, N',N'-dibenzylguanidinopropyl, N'-methylguanidinopropyl, hydroxymethyl, 1-hydroxyethyl, 2-propyl, N-methyl-3-indolylmethyl, 4-methoxybenzyl, 4-hydroxybenzyl, propyl, butyl, cyclohexylmethyl, phenyl, 2-naphthylmethyl, and a 4-imidazolylmethyl substituent;

R² is selected from the group consisting of a methyl, ethyl, isopropyl, n-propyl, butyl, t-butyl, cyclohexyl, n-octadecyl, phenyl, benzyl, 2-fluorophenyl, 3-fluorophenyl, 4-fluorophenyl, 2-chlorophenyl, 3-chlorophenyl, 4-chlorophenyl, 2-bromophenyl, 3-bromophenyl, 4-bromophenyl, 3-chloro-4-methylphenyl, 3-bromo-4-methylphenyl, 3-fluorosulfonyl-phenyl, 3,4-(methylenedioxy)phenyl, 4-phenoxyphenyl, trans-2-phenylcyclopropyl, 4-toluenesulfonyl, 2-tolyl, 3-tolyl, 4-tolyl, 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, α,α,α -trifluoro-2-tolyl, α,α,α -trifluoro-3-tolyl, α,α,α -trifluoro-4-tolyl, 2,5-dimethylphenyl, 3,4-dimethylphenyl and a 3,5-dimethylphenyl substituent; and

R³ is selected from the group consisting of a hydrido, C₁-C₆ alkyl, C₂-C₆ alkenyl, benzyl, and a substituted benzyl substituent.

18. The compound according to claim 17 wherein the R¹ substituent is a side chain of an amino acid selected from the group consisting of Ala, Phe, Gly, Asp, Asn, Glu, Gln, His, Ile, Lys, Leu, Met, Arg, Nva, Ser, Thr, Val, Trp, Tyr, Nle, Cha, Chg, Fph, Cph, Nph, Aib, Abu, ala, phe, asp, asn, glu, gln, his, ile, lys, leu, met, arg, ser, thr, val, trp, tyr, nle, nva, cha, chg, fph, cph, aib, and abu wherein amino acids written with an initial capital letter are L-amino acids and those written in all lower case letters are D-amino acids.

19. The compound according to claim 17 wherein the R² substituent is selected from the group consisting of a phenyl, 4-halophenyl, 4-(C₁-C₆-alkyl)phenyl and a C₁-C₆ alkyl group.

20. The compound according to claim 17 wherein the R³ substituent is selected from the group consisting of a hydrido, methyl, benzyl, 2-, 3- and 4-methylbenzyl, 2-, 3- and 4-fluorobenzyl, 2-, 3- and 4-chlorobenzyl, 2,4-, 3,4-, 3,5- and 2,6-difluorobenzyl, 4-(trifluoromethyl)benzyl, 4-(trifluoromethoxy)benzyl, 2-, 3-, and 4-methoxybenzyl, 3,5- and 3,4-dimethoxybenzyl, 2-, 3- and 4-nitrobenzyl, 2-, 3- and a 4-phenylbenzyl substituent.

21. A process for forming a 1,3-disubstituted-2,4,6-triazinetriene that comprises the steps of:

a) providing an amino acid reversibly bound to a solid phase, said amino acid having a free amino group and a side chain denominated R^1 ;

b) reacting said free amine of the solid phase bound amino acid with an R^2 -substituted isocyanate to form a solid phase-bound urea having R^1 and R^2 substituents;

c) reacting said solid phase-bound urea with chlorocarbonylisocyanate to form a 1,3-disubstituted-2,4,6-triazinetriene whose 1- and 3-substituents are R^1 and R^2 , respectively; and

d) cleaving said 1,3-disubstituted-2,4,6-triazinetriene from said solid support and recovering the cleaved material;

wherein R^1 is selected from the group consisting of a hydrido, C_1 - C_{10} alkyl, C_1 - C_{10} substituted alkyl, C_7 - C_{16} phenylalkyl, C_7 - C_{16} substituted phenylalkyl, phenyl, substituted phenyl, C_3 - C_7 cycloalkyl, and a C_3 - C_7 substituted cycloalkyl group; and

R^2 is selected from the group consisting of a C_1 - C_{10} alkyl, C_1 - C_{10} substituted alkyl, C_7 - C_{16} phenylalkyl, C_7 - C_{16} substituted phenylalkyl, phenyl, substituted phenyl, C_3 - C_7 cycloalkyl, C_3 - C_7 substituted cycloalkyl, and a C_3 - C_7 substituted cycloalkyl group.

22. The process according to claim 21 wherein R^1 is selected from the group consisting of a hydrido, methyl, benzyl, 2-butyl, N,N-dimethylamino-butyl, N-methylaminobutyl, N-methyl-N-benzylaminobutyl, 2-methylpropyl, methylsulfinyl-ethyl,

methylthioethyl, N,N-dimethylaminoethyl, N,N-dimethylaminopropyl, N',N',N'-trimethylguanidinopropyl, N',N',N'-tribenzyl-guanidinopropyl, N',N'-dibenzylguanidinopropyl, N'-methylguanidinopropyl, hydroxymethyl, 1-hydroxyethyl, 2-propyl, N-methyl-3-indolylmethyl, 4-methoxybenzyl, 4-hydroxybenzyl, propyl, butyl, cyclohexylmethyl, phenyl, 2-naphthylmethyl, and a 4-imidazolylmethyl substituent.

23. The library according to claim 21 wherein R² is selected from the group consisting of a methyl, ethyl, isopropyl, n-propyl, butyl, t-butyl, cyclohexyl, n-octadecyl, phenyl, benzyl, 2-fluorophenyl, 3-fluorophenyl, 4-fluorophenyl, 2-chlorophenyl, 3-chlorophenyl, 4-chlorophenyl, 2-bromophenyl, 3-bromophenyl, 4-bromophenyl, 3-chloro-4-methylphenyl, 3-bromo-4-methylphenyl, 3-fluorosulfonyl-phenyl, 3,4-(methylenedioxy)phenyl, 4-phenoxyphenyl, trans-2-phenylcyclopropyl, 4-toluenesulfonyl, 2-tolyl, 3-tolyl, 4-tolyl, 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, α,α,α -trifluoro-2-tolyl, α,α,α -trifluoro-3-tolyl, α,α,α -trifluoro-4-tolyl, 2,5-dimethylphenyl, 3,4-dimethylphenyl and a 3,5-dimethylphenyl substituent.

24. The process according to claim 21 wherein the R¹ substituent is a side chain of an amino acid selected from the group consisting of Ala, Phe, Gly, Asp, Asn, Glu, Gln, His, Ile, Lys, Leu, Met, Arg, Nva, Ser, Thr, Val, Trp, Tyr, Nle, Cha, Chg, Fph, Cph, Nph, Aib, Abu, ala, phe, asp, asn, glu, gln, his, ile, lys, leu, met, arg, ser, thr, val, trp, tyr, nle, nva, cha, chg, fph, cph, aib, and abu wherein amino acids written with an initial

capital letter are L-amino acids and those written in all lower case letters are D-amino acids.

25. A process for preparing a 1,3,5-trisubstituted-2,4,6-triazinetri-
one that comprises the step of alkylating the 1,3-disubstituted-2,4,6-triazinetri-
one of claim 21 prior to step (d) using an R^3 group-containing alkylating agent,

wherein R^3 is selected from the group consisting of a hydrido, C_1 - C_{10} alkyl, C_1 - C_{10} substituted alkyl, C_2 - C_{10} alkenyl, C_2 - C_{10} substituted alkenyl, C_2 - C_{10} alkynyl, C_2 - C_{10} substituted alkynyl, C_3 - C_7 cycloalkyl, C_3 - C_7 substituted cycloalkyl, phenyl, C_7 - C_{16} phenylalkyl, C_7 - C_{16} phenylalkenyl, C_7 - C_{16} phenylalkenyl and a C_7 - C_{16} substituted phenylalkenyl group.

26 The process according to claim 25 wherein R^3 is selected from the group consisting of a hydrido, C_1 - C_6 alkyl, C_2 - C_6 alkenyl, benzyl, and a substituted benzyl substituent.

27. The process according to claim 25 wherein R^3 is selected from the group consisting of a hydrido, methyl, benzyl, 2-, 3- and 4-methylbenzyl, 2-, 3- and 4-fluorobenzyl, 2-, 3- and 4-chlorobenzyl, 2,4-, 3,4-, 3,5- and 2,6-difluorobenzyl, 4-(trifluoromethyl)benzyl, 4-(trifluoromethoxy)benzyl, 2-, 3-, and 4-methoxybenzyl, 3,5- and 3,4-dimethoxybenzyl, 2-, 3- and 4-nitrobenzyl, 2-, 3- and a 4-phenylbenzyl substituent.